

Short Term Courses – NIELIT

Certificate Course in Embedded System Design using ARM/ Cortex Microcontroller

Objective of the Course:

To train students on ARM/ Cortex microcontroller which has state of art processing capabilities.

Learning Outcomes:

Participant shall learn how to interface on ARM/ Cortex microcontroller to real world devices.

Expected Job Roles:

Embedded Programmer

**Duration of the Course
(in hours)** 80 hrs

Appr. Fees (INR): Rs.8000/-

**Minimum Eligibility
Criteria and pre-
requisites, if any** B.Tech Undergoing or above

Outline of Course

S. No	Topic	Minimum No. of Hours
1.	Embedded C	8 hrs
2.	ARM /Cortex Architecture	6 hrs
3.	ARM/Cortex Peripherals (LCD, Stepper motor, Keypad etc)	8 hrs
4.	Interfacing ARM/ Cortex to peripheral devices	8 hrs
Theory / Lecture Hours:		30 hrs
Practical / Tutorial / Lecture Hours:		50 hrs
Total Hours:		80 hrs

**Books recommended
for reference and
reading:** Introduction to ARM cortex- M Microcontroller Embedded System By Jonathan
W. Valvano

Group Code: EMBD **Group Name:** Embedded System

Course Code: CT03 **Course Name:** Certificate Course in Embedded System Design using
ARM/ Cortex Microcontroller